

Figure 1 - Computer System

(With Connections to Local Area Network, Local Storage, and Internet )

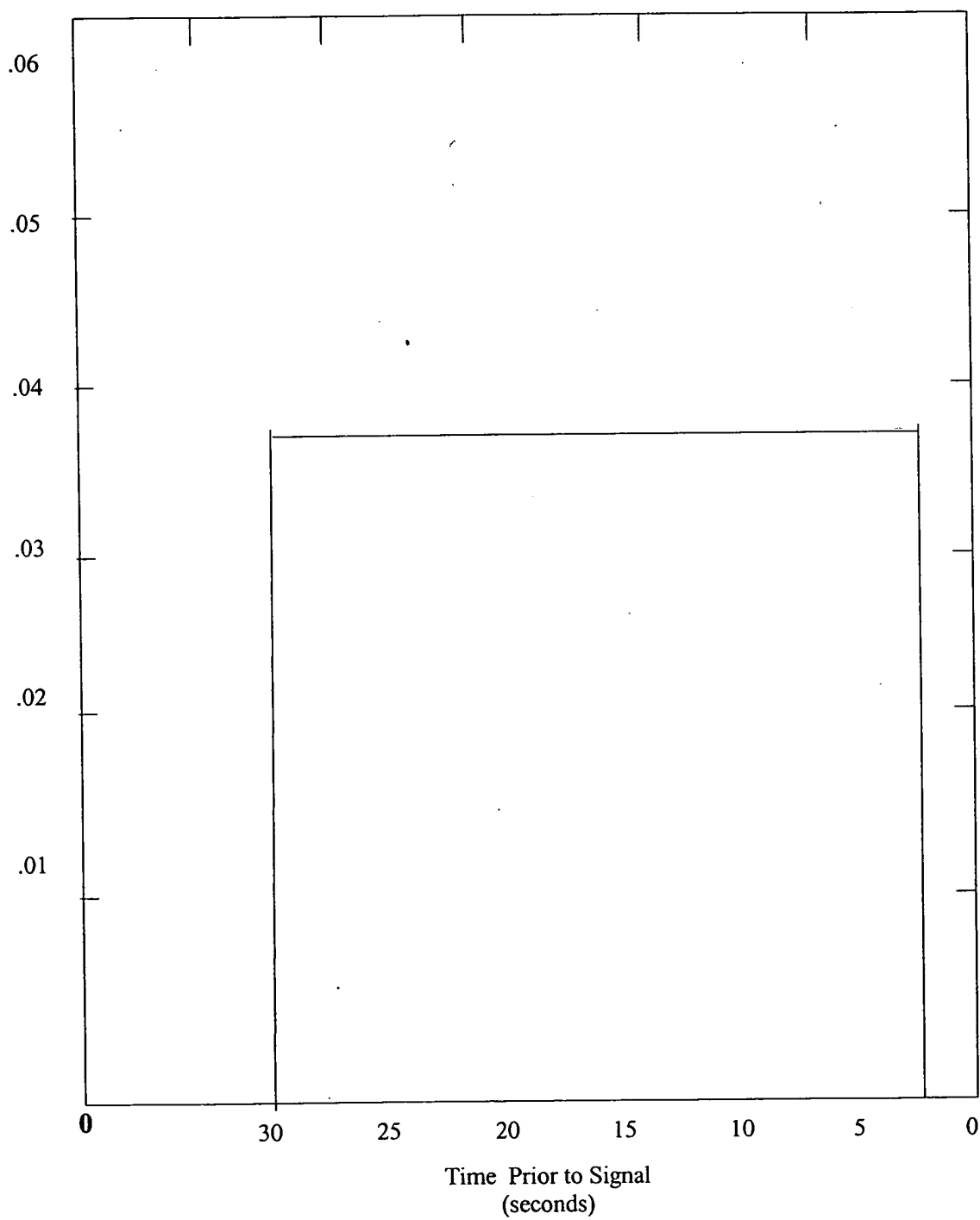


Figure 2 - Interest in Content As A Function of Time in One Embodiment

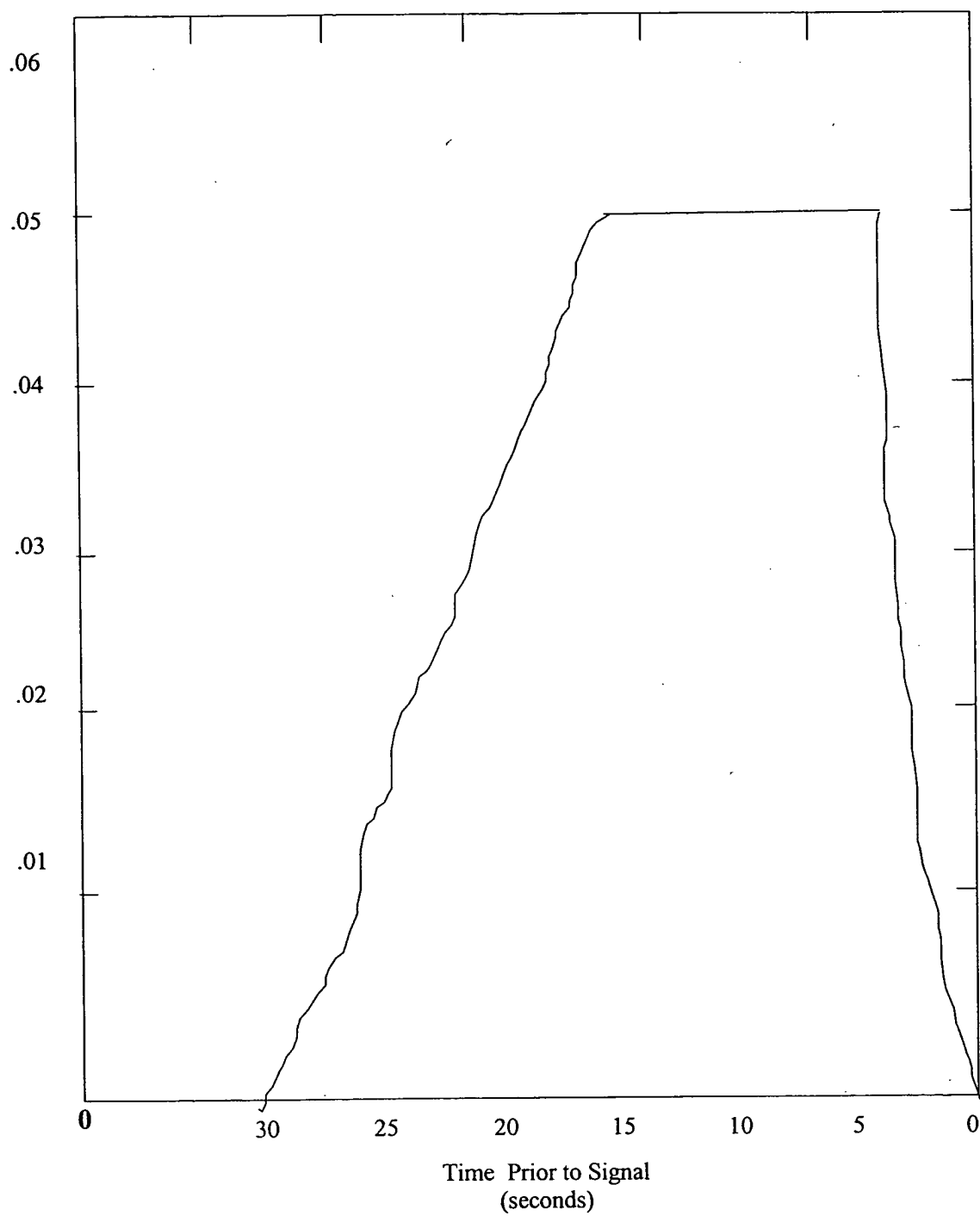


Figure 3 - Interest in Content As A Function of Time in One Embodiment

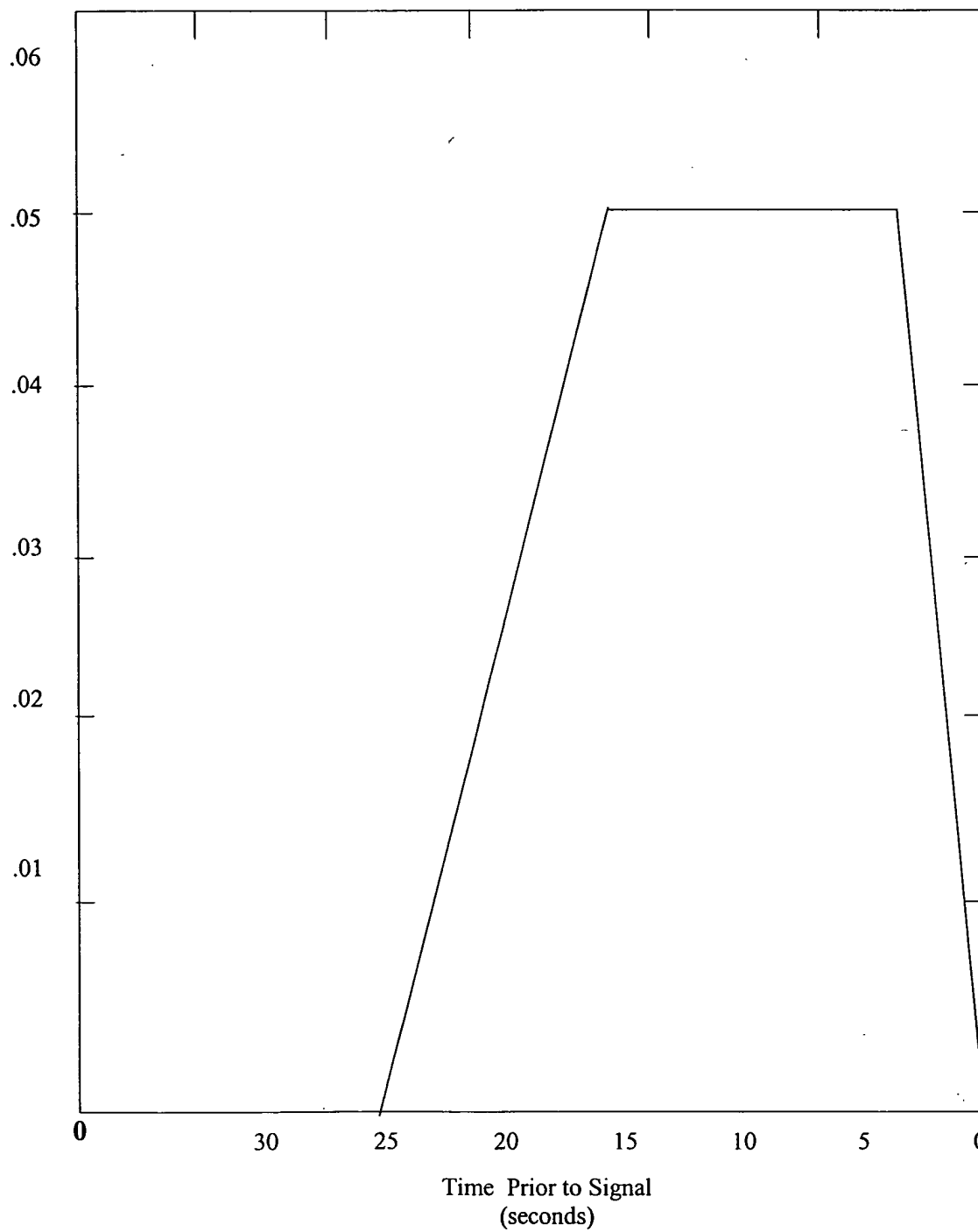


Figure 4 - Interest in Content As A Function of Time in One Embodiment

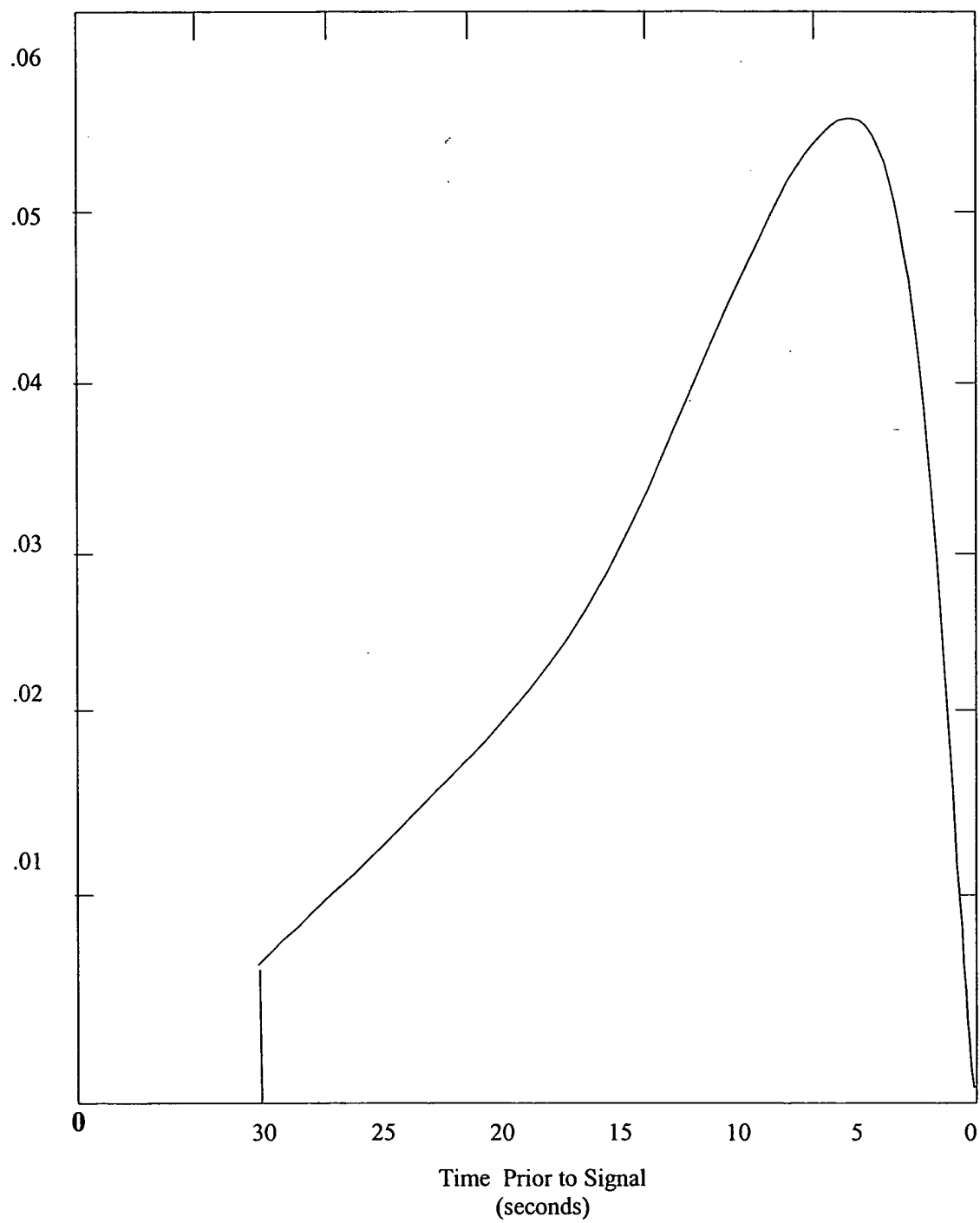
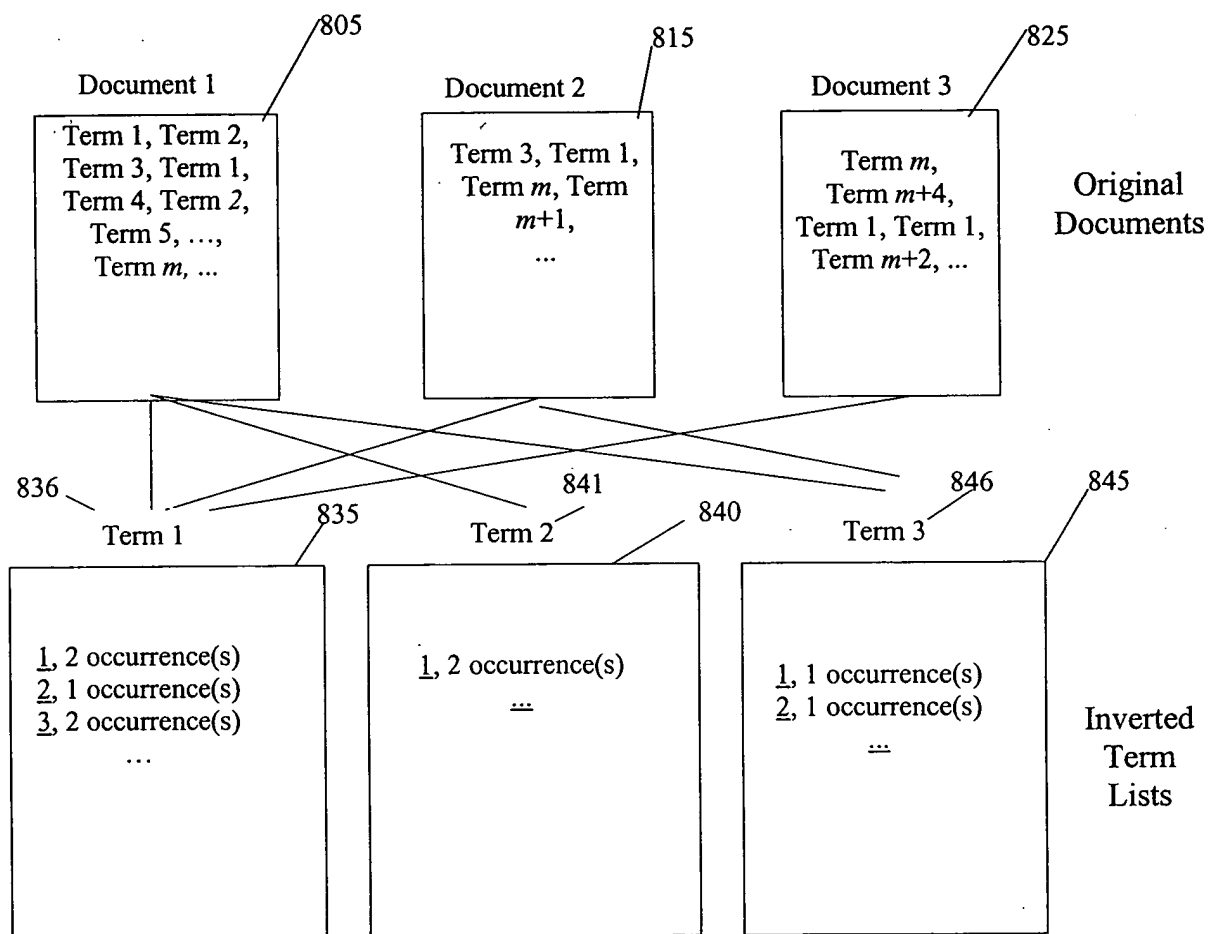


Figure 5 - Interest in Content As A Function of Time  
Using Discrete Two Stage Exponential Function



**Figure 6 - Relationship Between Documents and Inverted Term Lists (Prior Art)**

100

Document #	Document URL
1	URL 1
2	URL 2
3	URL 3
...	

Lookup Table

102

Term #	Term	ITL Address	Number of Documents Containing Term	TF <sub>MAX</sub>
1	"Term 1"	Loc. 1	N <sub>1</sub>	TF <sub>M1</sub>
2	"Term 2"	Loc. 2	N <sub>2</sub>	TF <sub>M2</sub>
3	"Term 3"	Loc. 3	N <sub>3</sub>	TF <sub>M3</sub>

Lookup Table

Figure 7 - Lookup Tables Which May Be Used With Inverted Term Lists (Prior Art)

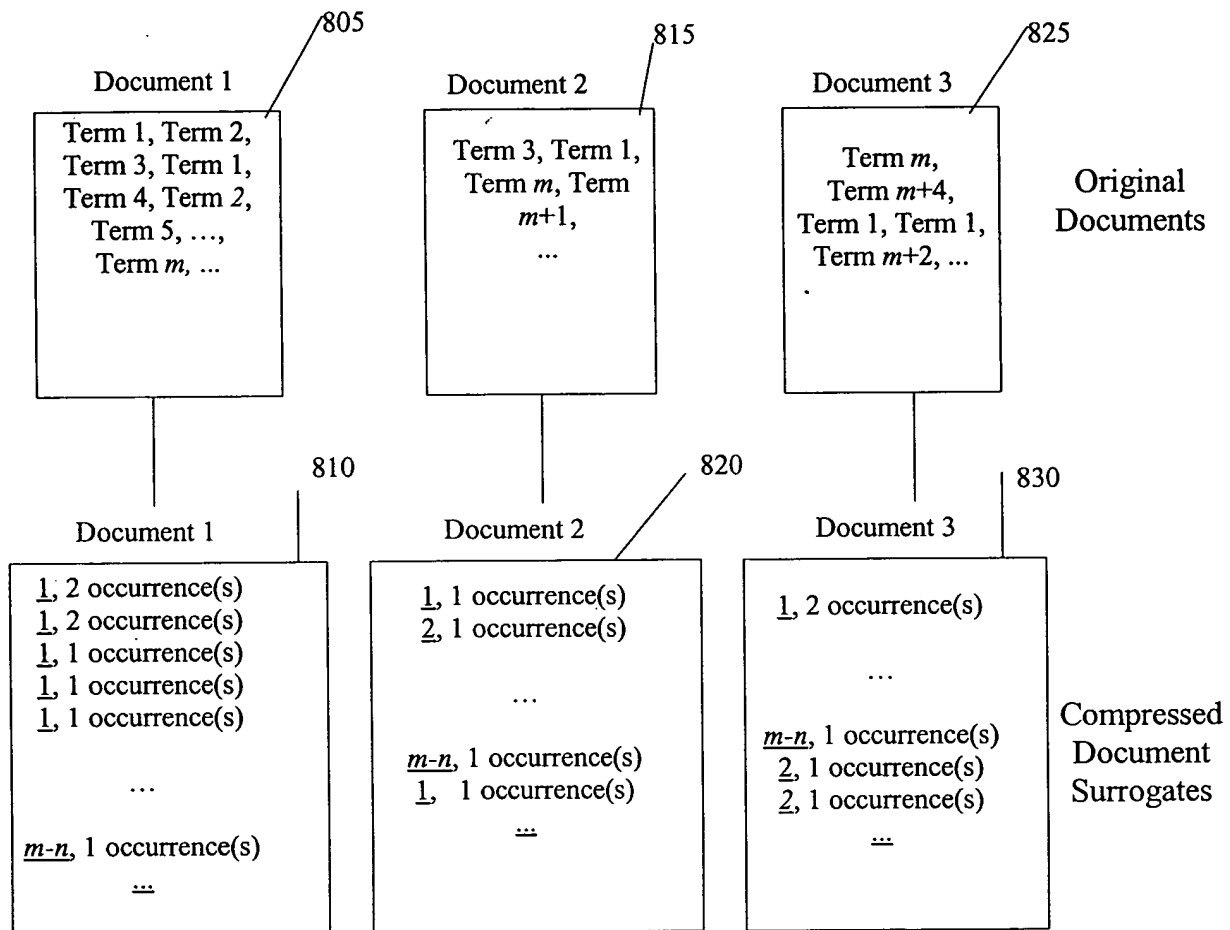


Figure 8 - Relationship Between Documents and Compressed Document Surrogates



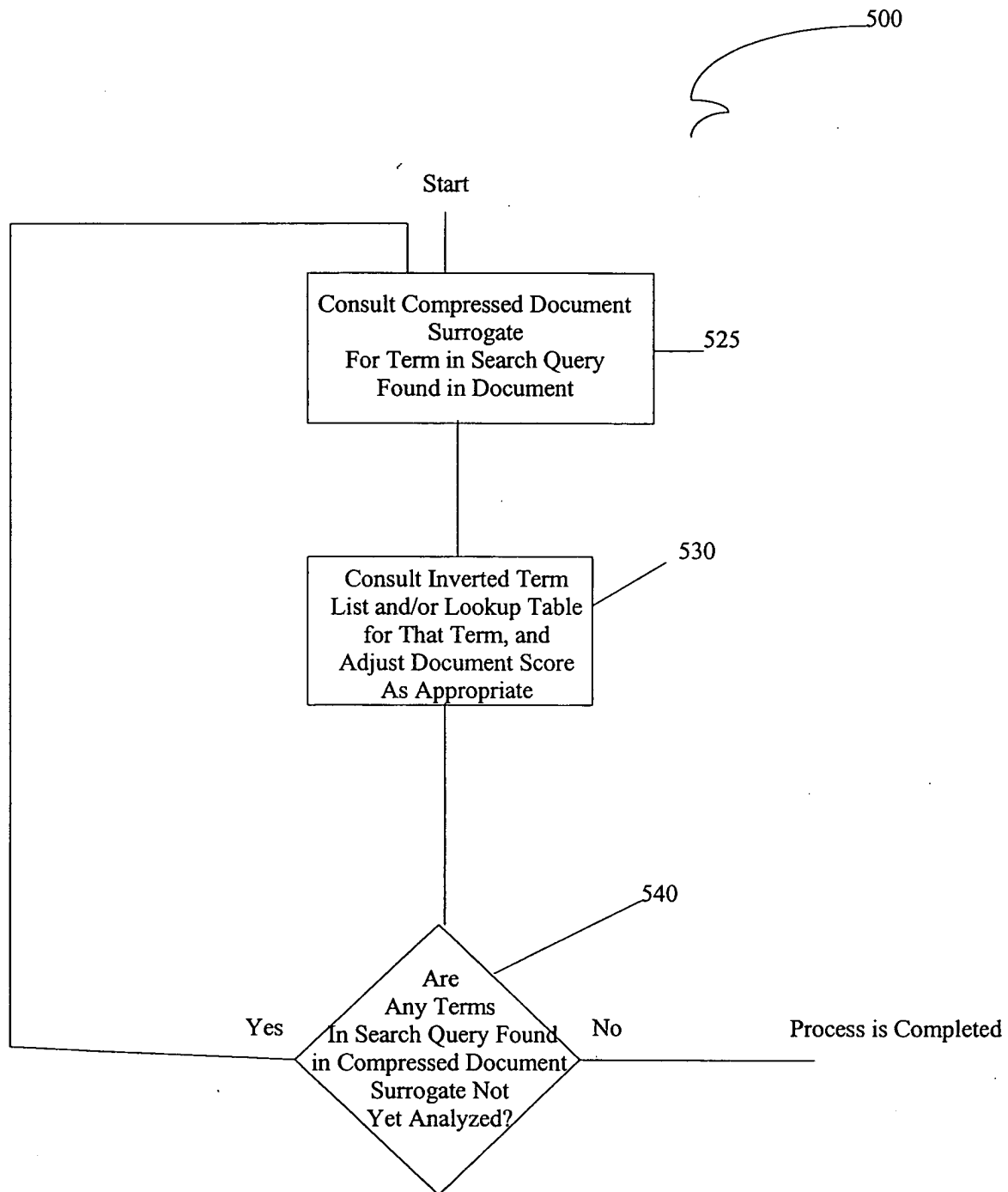
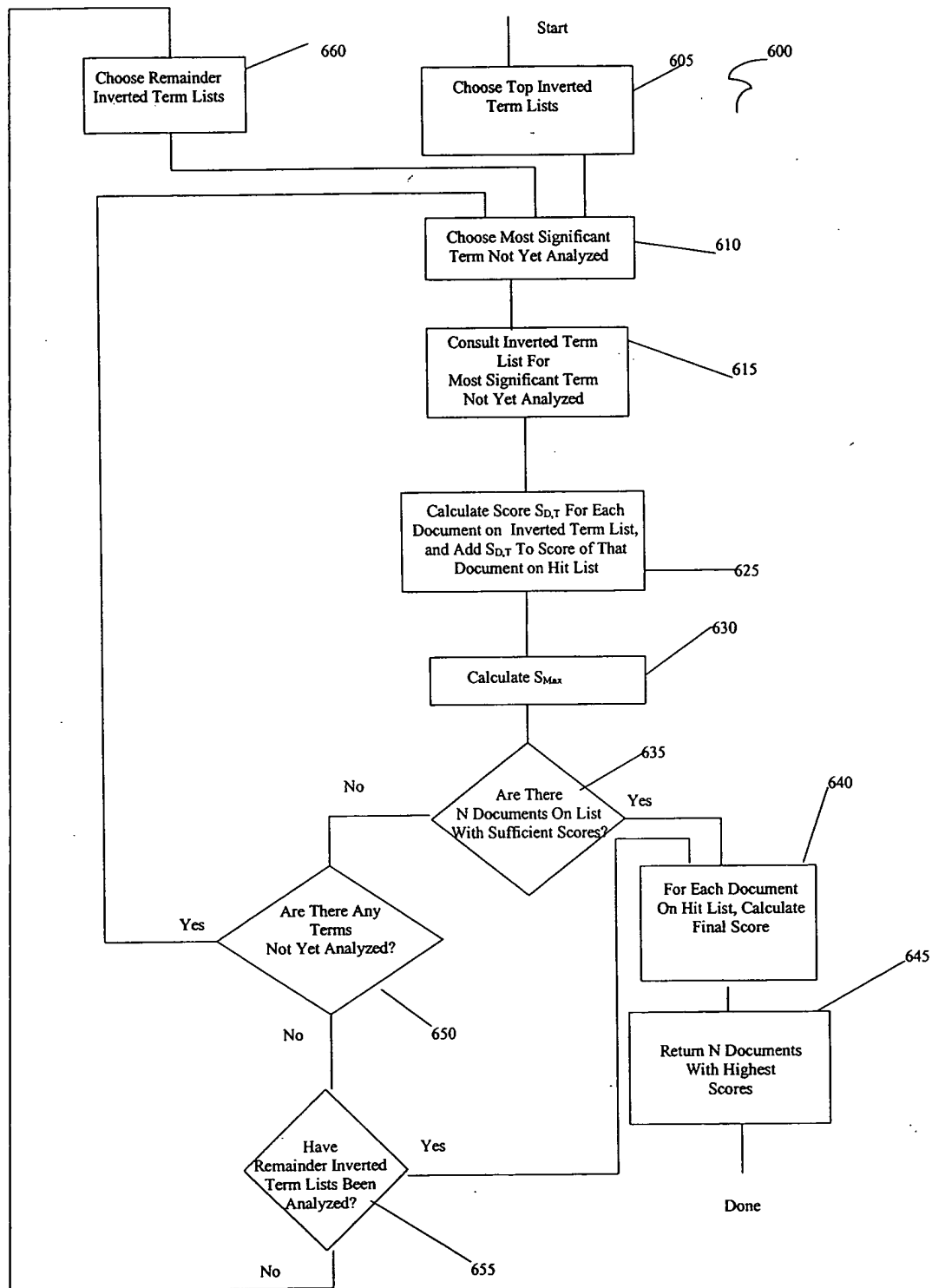


Figure 9 - Process of Calculating Document Score Using Compressed Document Surrogate



**Figure 10 - Process of Carrying Out Search Query Using Compressed Document Surrogates**